

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/791,001	LILLE, JEFFREY S.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Julie Anne Watko	2627	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment after final, filed 10/16/2006, which has NOT been entered.
2. ☒ The allowed claim(s) is/are 1,2,5-12,21 and 24-27.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☒ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

On page 12, line 8 of the specification, "seed layer 230" has been changed to --seed layer 233 [230]--.

On page 15, line 17 of the specification, "seed layer 230" has been changed to --seed layer 233 [230]--.

Claim 1 has been changed to --A magnetic head comprising: a write head portion including a first magnetic pole and a second magnetic pole; an induction coil being disposed at least in part between said first and second magnetic poles; an electrical lead of said induction coil having an electrical lead thickness and being disposed in a layer of the magnetic head; a heat sink being disposed within said layer and being coplanar within the magnetic head with said electrical lead of said coil, said heat sink having a heat sink thickness that is equal to said electrical lead thickness, and wherein said heat sink is disposed directly upon a seed layer that is disposed at least in part directly upon said magnetic pole.--.

Claims 3-4 have been cancelled.

In claim 5, line 1, "as described in claim 4" has been changed to --as described in claim 1 [4]--.

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Claim 7 has been changed to --A magnetic head [as described in claim 1 further including] comprising: a write head portion including a first magnetic pole and a second magnetic pole; an induction coil being disposed at least in part between said first and second magnetic poles; an electrical lead of said induction coil being disposed in a layer of the magnetic head; a first heat sink being coplanar within the magnetic head with said electrical lead of said coil and a second heat sink, and wherein said heat sink and said second heat sink are thermally interconnected by a heat sink interconnect member.--.

Claims 13-20 have been cancelled.

Claim 21 has been changed to --A hard disk drive, comprising: at least one hard disk being adapted for rotary motion upon a disk drive; at least one slider device having a slider body portion being adapted to fly over said hard disk; a magnetic head being formed on said slider body for writing data to said hard disk, a magnetic head being formed on said slider body for writing data to said hard disk, said magnetic head including: a write head portion including a first magnetic pole and a second magnetic pole; an induction coil being disposed at least in part between said first and second magnetic poles; an electrical lead of said induction coil having an electrical lead thickness and being disposed in a layer of the magnetic head; a heat sink being disposed within said layer and being coplanar within the magnetic head with said electrical lead of said coil, said heat sink having heat sink thickness that is equal to said electrical lead thickness, and wherein said heat sink is disposed directly upon a seed layer that is disposed at least in part directly upon said magnetic pole.--.

Claims 22-23 have been cancelled.

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Claim 24 has been changed to --A hard disk drive [as described in claim 21] comprising: at least one hard disk being adapted for rotary motion upon a disk drive; at least one slider device having a slider body portion being adapted to fly over said hard disk; a magnetic head being formed on said slider body for writing data to said hard disk, said magnetic head including: a write head portion including a first magnetic pole and a second magnetic pole; an induction coil being disposed at least in part between said first and second magnetic poles; an electrical lead of said induction coil being disposed in a layer of the magnetic head; a first heat sink being coplanar within the magnetic head with said electrical lead of said coil and [further including] a second heat sink, and wherein said heat sink and said second heat sink are thermally interconnected by a heat sink interconnect member. --.

2. The Examiner has amended the specification for consistency with the drawings filed on September 1, 2006, which are acceptable. Applicant's amendment filed October 16, 2006, has not been entered because it would have been inconsistent with said drawings.

3. The Examiner has amended the claims to conform to Applicant's clear intent. Changes to the claims are indicated with respect to the claims filed on July 24, 2006.

4. The following is an examiner's statement of reasons for allowance: The prior art of record neither shows nor suggests a head with all of the claimed limitations, absent impermissible hindsight reasoning.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. The drawings filed 07/24/2006 are objected to because the same number (230) has been used to refer to different parts. It is noted that the drawings filed 09/01/2006 were not approved because they were inconsistent with Applicant's proposed amendments to the specification. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

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like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julie Anne Watko whose telephone number is (571) 272-7597.

The examiner can normally be reached on Monday through Friday, 1PM to 10PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne D. Bost can be reached on (571) 272-7023. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Julie Anne Watko, J.D.  
Primary Examiner  
Art Unit 2627

October 23, 2006  
JAW

A handwritten signature in black ink, appearing to read 'JAW', with a large, stylized loop at the end.